

## Product datasheet for RC204682

### PGRMC2 (NM\_006320) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: PGRMC2

Synonyms: DG6; PMBP

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC204682 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCTGGTATGGGGACGTGAAGCTAGGCACCCTGGGGAGTGGCAGCGAGAGCAGCAACGACGGCG  
 GCAGCGAGAGTCCAGGCGACGCGGGAGCGGCAGCGGAAGGGGAGGCTGGGCGCGCGCGCTTGGCGCT  
 TCTGACGGGGGGCGGGAAATGCTGTGAACGTGGCGCTGGTGGCTCTGGTGTCTGCTGGGGCCTACCGG  
 CTGTGGGTGCGCTGGGGCGCGGGGTCTGGGGCCGGGGCGGGCGGAGAGAGCCCCGCACCT  
 CTCTGCCTCGCATGAAGAAGCGGACTTCAGCTTGAGCAGCTGCGCCAGTACGACGGCTCCCGCAACCC  
 GCGCATCCTGCTCGCGGTCAATGGGAAAGTCTTCGACGTGACCAAAGGCAGCAAGTTCTACGGCCCGGCG  
 GGTCCATATGGAATATTTGCTGGTAGGGATGCCTCCAGAGGACTGGCCACATTTTGCCTAGATAAAGATG  
 CACTTAGAGATGAATATGATGATCTCTCAGATTTGAATGCAGTACAAATGGAGAGTGTTCGAGAATGGGA  
 AATGCAGTTTAAAGAAAAATATGATTATGTAGGCAGACTCCTAAAACCAGGAGAAGAACCATCAGAATAT  
 ACAGATGAAGAAGATACCAAGGATCACAATAAACAGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204682 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAGDGDVKLGTLGSGSESSNDGSESPGDAGAAAEGGWAAAALALLTGGEMLLNVALVALVLLGAYR  
 LWVRWRRRLGAGAGAGEESPATSLPMKKRDFLEQLRQYDGSRNPRILLAVNGKVFDTKGSKFYGPA  
 GPYGIFAGRDSRGLATFCLDKDALRDEYDDLSDNAVQMESVREWEMQFKEKYDYVGRLLKPGEEPSEY  
 TDEEDTKDHNKQD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV



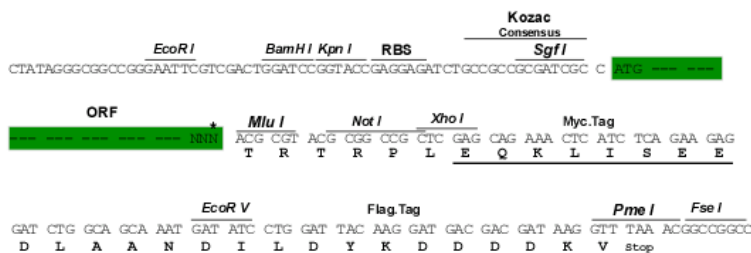
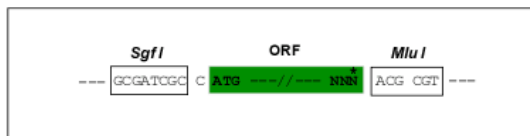
[View online »](#)

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6062\\_e08.zip](https://cdn.origene.com/chromatograms/mk6062_e08.zip)

Restriction Sites: Sgfl-MluI

### Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM 006320

ORF Size: 669 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

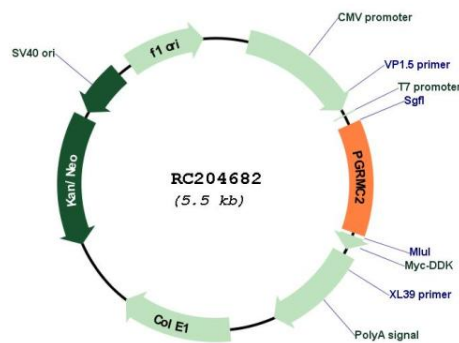
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_006320.6](#)

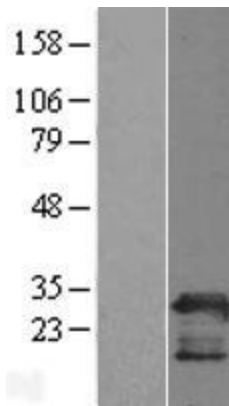
RefSeq Size: 3790 bp

RefSeq ORF:	672 bp
Locus ID:	10424
UniProt ID:	<a href="#">O15173</a>
Cytogenetics:	4q28.2
Domains:	heme_1
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transmembrane
MW:	23.8 kDa
Gene Summary:	Receptor for steroids.[UniProtKB/Swiss-Prot Function]

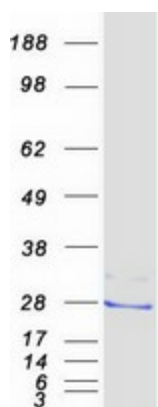
## Product images:



Circular map for RC204682



Western blot validation of overexpression lysate (Cat# [LY401907]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204682 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PGRMC2 protein (Cat# [TP304682]). The protein was produced from HEK293T cells transfected with PGRMC2 cDNA clone (Cat# RC204682) using MegaTran 2.0 (Cat# [TT210002]).